WHAT IS CLAIMED IS:

1. A PEG conjugate having the structure of the Formula

5

wherein

n is an integer between 1 and 10;

m is an integer between 1 and 10;

10 R is human growth hormone or methionyl human growth hormone.

2. The PEG conjugate of claim 1 having the structure

15

wherein R is human growth hormone or methionyl human growth hormone.

20

- 3. The conjugate of claim 2 wherein said human growth hormone comprises an amino acid sequence of SEQ ID NO:1.
- 5 4. The conjugate of claim 2 wherein said human growth hormone consists of an amino acid sequence of SEQ ID NO:1.
- 5. The human growth hormone-PEG conjugate of claim 3 or 4 wherein greater than 90% of said polyethylene glycol is conjugated to an amino-terminal phenylalanine of the amino acid sequence of SEO ID NO:1.
- 15 6. The human growth hormone-PEG conjugate of claim 3 or 4 wherein greater than 95% of said polyethylene glycol is conjugated to an aminoterminal phenylalanine of the amino acid sequence of SEQ ID NO:1.

20

35

- 7. The human growth hormone-PEG conjugate of claim 5 wherein each mPEG has a molecular weight of about 20 kDa.
- 25 8. The human growth hormone-PEG conjugate of claim 6 wherein each mPEG has a molecular weight of about 20 kDa.
- 9. A composition comprising the human growth 30 hormone-PEG conjugate of claim 7 and at least one pharmaceutically acceptable carrier.
 - 10. A method of treating a patient having a growth or development disorder comprising administering to said patient a therapeutically

effective amount of the human growth hormone-PEG conjugate of claim 7.

- 11. The method of claim 10 wherein said growth or development disorder is Growth Hormone Deficiency (GHD).
 - 12. The method of claim 10 wherein said growth or development disorder is Turner's syndrome.

10

- 13. The method of claim 10 wherein said growth or development disorder is Chronic Renal Insufficiency.
- 15 14. The method of claim 10 wherein said growth or development disorder is small for gestational age (SGA).
- 15. A composition comprising the human growth 20 hormone-PEG conjugate of claim 8 and at least one pharmaceutically acceptable carrier.
 - 16. A method of treating a patient having a growth or development disorder comprising administering to said patient a therapeutically effective amount of the human growth hormone-PEG conjugate of claim 8.
- 17. The method of claim 16 wherein said growth or development disorder is Growth Hormone Deficiency (GHD).
 - 18. The method of claim 16 wherein said growth or development disorder is Turner's syndrome.

35

25

- 19. The method of claim 16 wherein said growth or development disorder is Chronic Renal Insufficiency.
- 5 20. The method of claim 16 wherein said growth or development disorder is small for gestational age (SGA).